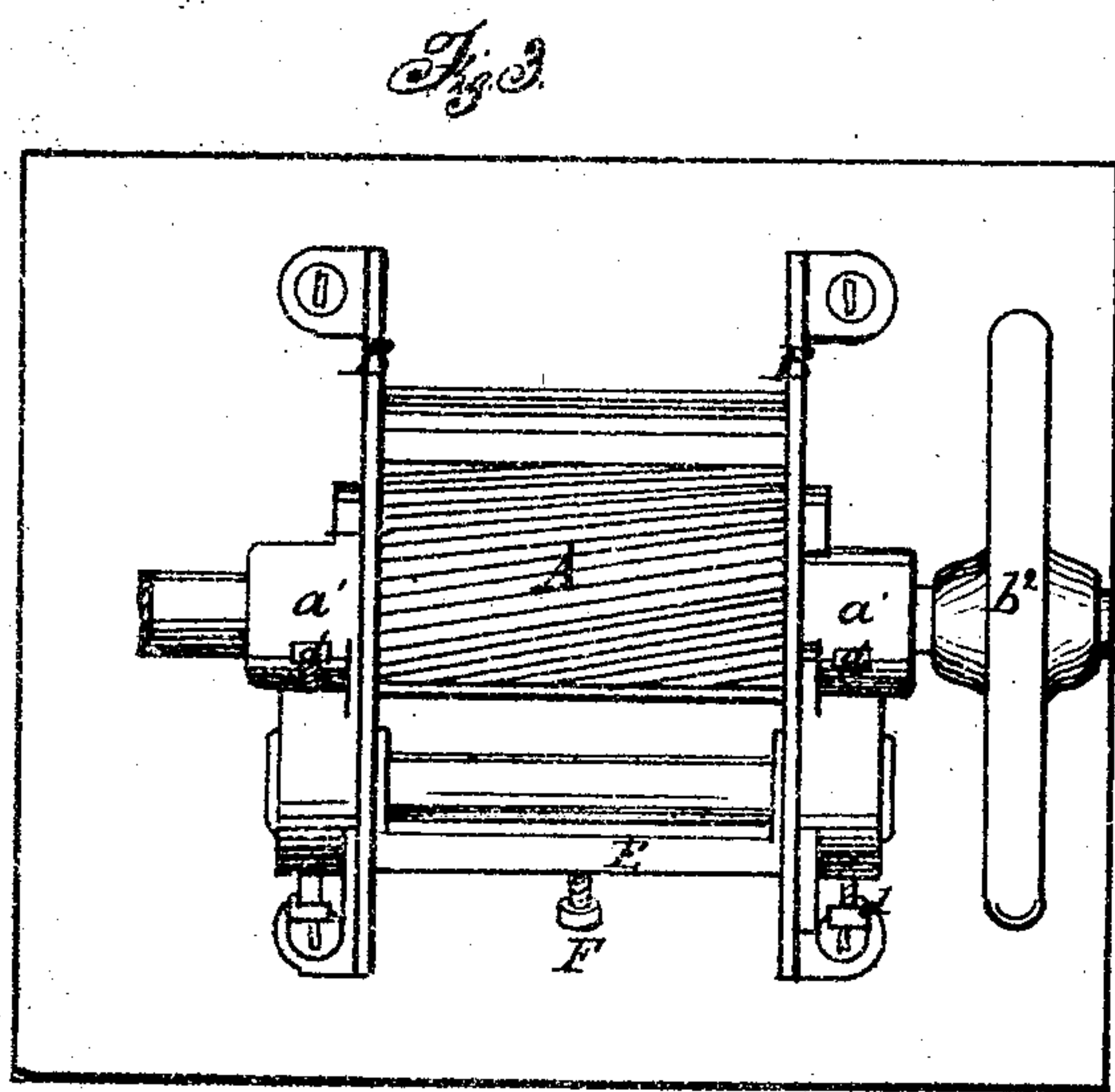
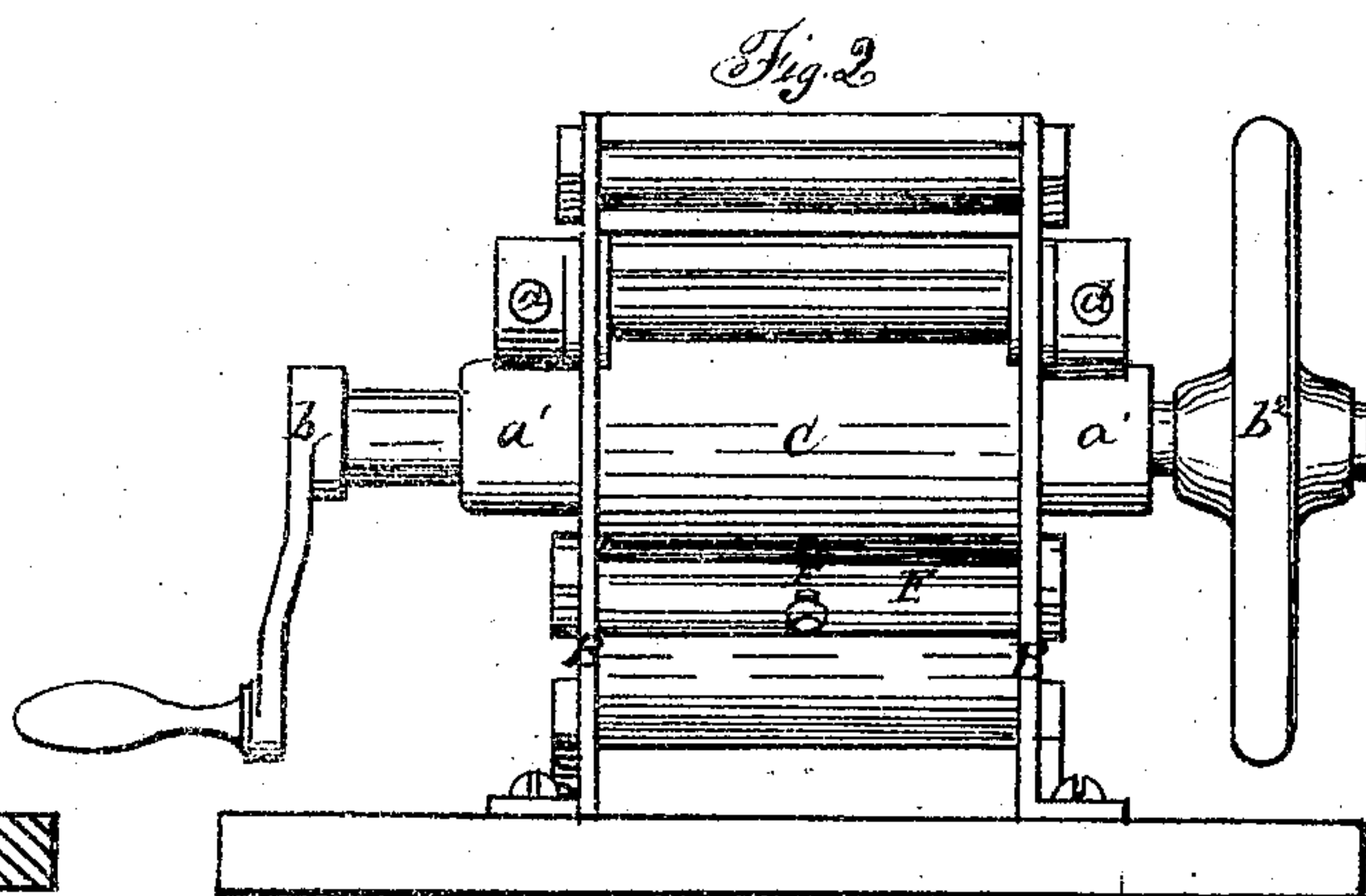
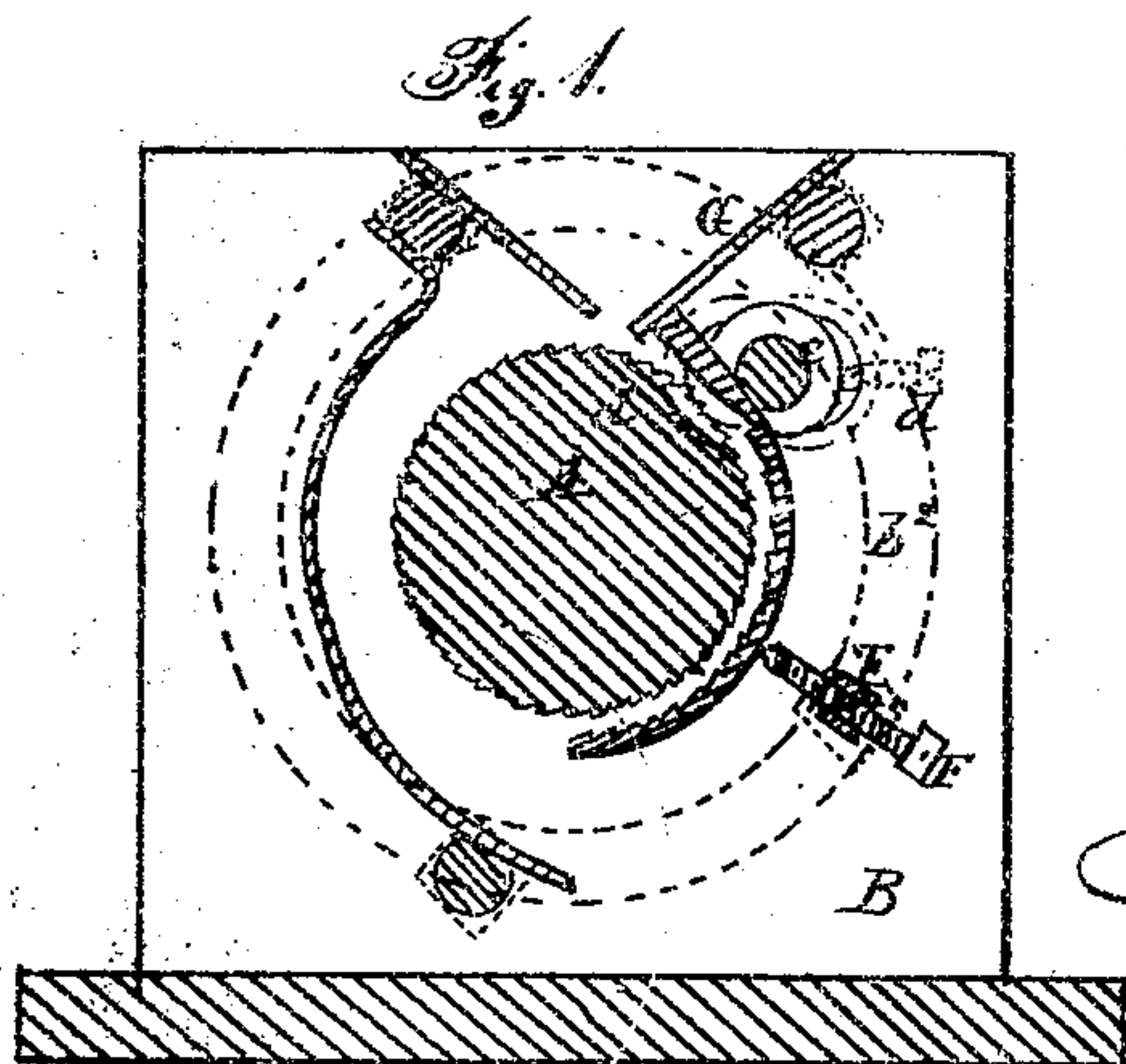


T. Grey.
Grinding Mill.

Nº 71606

Patented Dec. 3, 1867.



Witnesses
B. H. Muehle
Edw. Wilhelm

Inventor
Thomas Grey

United States Patent Office.

THOMAS GREY, OF CLARENCE, NEW YORK, ASSIGNOR TO HIMSELF AND
HENRY LAPP, OF THE SAME PLACE.

Letters Patent No. 71,606, dated December 3, 1867.

IMPROVEMENT IN GRINDING-MILLS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, THOMAS GREY, of Clarence, in the county of Erie, and State of New York, (assignor to himself and Henry Lapp, of the same place,) have invented certain new and useful Improvements in Grinding-Mills; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure I is a longitudinal vertical section.

Figure II is an end elevation.

Figure III is a top plan view.

The nature of this invention consists in the construction and use of a corrugated curved plate, supported in heads or blocks which slide and are adjustable within slots in the main frame, and upon which the said plate is allowed to swing, the lower end of the plate being also made adjustable by means of a set-screw.

Letters of like name and kind refer to like parts in each of the figures.

A represents a corrugated roller, of cast or wrought iron, which revolves in bearings a' formed in the vertical side plates B. A crank, b^1 , and a fly-wheel, b^2 , are placed upon the shaft on opposite sides of the roller. C represents a curved plate, one side of which, being that which is contiguous to the roller A, is also corrugated. The upper edge of the plate is extended laterally in a manner to form journals upon each side thereof, which journals are supported in movable bearings c^1 . These bearings consist of two sliding heads, which may be adjusted in any desired position within the horizontal slots c^2 formed in the side plates B, by means of the set-screws d d' . One of these set-screws bears against each side of the bearing c^1 in a manner to hold the same firmly in any desired position. The lower end of the plate C being allowed to swing upon the journals above mentioned, is also made adjustable independent of the top edge thereof. E represents a cross-brace, interposed transversely between the side plates B in a position opposite the lower end of the plate C, and connected firmly to said side plates. F represents a set-screw, passing through the centre of said brace E, and bearing against the back of the plate C. It will readily be seen that the top end of the plate C may be adjusted in any desired proximity to the periphery of the roller A, independent of the lower end of the plate, the former being supported in its journal-bearings c^1 , and held in place by the set-screws d d' , and the latter swinging in said bearings, and being held in place by means of the set-screw F. G represents a hopper, located above the roller and plate in a manner to guide the corn, wheat, or other article to be ground between the two.

The construction and adjustability of the plate, as hereinabove described, enable the operator to set or arrange the mill for grinding different-sized articles, and reducing them to any desired fineness with the greatest ease and dispatch.

What I claim as my invention, and desire to secure by Letters Patent, is—

The corrugated plate C, attached to the sliding journal-bearings c^1 , and adjusted by means of the set-screws d , d' , and F, for the purpose and substantially as herein described.

THOMAS GREY.

Witnesses:

B. H. MUEHLE,

EDW. WILHELM.